CLAIMS OF THE INVENTION

2	1. A method of preventing intervertebral disc herniation and related disorders in a human
3	or an animal spine comprising, first, a discovery that torques, forces, stresses, strains,
4	sprains imposed on said spine, the pelvis and the spinal and pelvic components and the
5	deviations in the musculoskeletal structure and biomechanics of said human or animal is
6	a cause of said herniation of an intervertebral disc or a plurality of intervertebral discs
7	and, second, a data means for estimating the risks, incidences and propensity towards said
8	disc herniation in a human population or an animal population comprises:
9	an application of said discovery for the prevention of said disc herniation;
10	an application of said discovery for the treatment of of said disc herniation;
11	an illustration of said data;
12	an application of said data for the prevention of said disc herniation;
13	an application of said data for the treatment of of said disc herniation;
14	an identification of the soft tissues producing or involving with said disc
15	herniation;
16	a treatment of the soft tissues producing or involving with said disc herniation;
17	a measurement of a length of a muscle originating from said spine;
18 19	a measurement of the lengths of a plurality of muscles originating from said spine

1	a measurement of a length of a muscle inserting on said spine;
2	a measurement of the lengths of a plurality of muscles inserting on said spine;
3	a measurement of a length of a muscle originating from the pelvis;
4	a measurement of a length of a muscle inserting on the pelvis;
5	a measurement of the lengths of a plurality of muscles originating from the pelvis;
6	a measurement of the lengths of a plurality of muscles inserting on the pelvis;
7	a measurement of a length of a muscle originating from the leg;
8	a measurement of a length of a muscle inserting on the leg;
9	a measurement of the lengths of a plurality of muscles originating from the leg;
10	a measurement of the lengths of a plurality of muscles inserting on the leg;
11	a measurement of an angle formed by the long axis of a muscle and the long axis
12	of said spine;
13	
14	a measurement of a plurality of angles formed by the long axes of a plurality of
15	muscles and the long axis of said spine;
16	a measurement of a torque exerted by a muscle on said spine;
17	a measurement measuring the torques exerted by a plurality of muscles on said

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1	spine;	
2	a measurement of a force exerted by a muscle on said spine; and	
3	a measurement of forces exerted by a plurality of muscles on said spine.	
4	2. The method according to claim 1 wherein said deviations in the musculoskeletal	
5	structure and biomechanics according to claim 1 include the shortening and contracture of	
6	a specific muscle relating to said spine.	
7	3. The method according to claim 1 wherein said deviations in the musculoskeletal	
8	structure and biomechanics according to claim 1 include the shortening and contracture of	
9	a plurality of specific muscles relating to said spine.	
10	4. The plurality of muscles according to claim 3 include the shortening, spasm,	
11	contracture or a combination thereof of the hip flexors.	
12	5. The plurality of muscles according to claim 3 include the shortening, spasm,	
13	contracture or a combination thereof of the hip extensors.	
14	6. The method according to claim 1 wherein said illustration of said data means for	
15	estimating the risks, incidences and propensity towards said disc herniation comprises the	
16	characteristics and activities of individuals who had said disc herniation or herniations.	
17	7. The data means according to claim 6 comprises a plurality of ratio's of male:female;	
18	age ranges, averages, means, medians and standard deviations in males and females; types	
19	of bodies; measurements of lengths of a plurality of muscles originating from said spine;	

measurements of the lengths of a plurality of muscles inserting on said spine;

measurements of lengths of a plurality of muscles originating from said pelvis;

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1 measurements of lengths of a plurality of muscles inserting on said pelvis; measurements 2 of lengths of a plurality of muscles originating from the legs; measurements of lengths of a plurality of muscles inserting on the legs; measurements of a plurality of angles formed 3 4 by the long axes of a plurality of muscles and the long axis of said spine; measurements 5 of a pluralty of torques and forces exerted by a plurality of muscles on said spine; and 6 types of physical activities and works. 7 8. The method according to claim 1 wherein said identification of the soft tissues 8 producing or involving with said disc herniation comprises the identification of specific 9 muscles in the muscle groups of intervertebral muscles, abdominal and back muscles, hip 10 flexors, hip extensors, ankle dorsiflexors and ankle dorsiextensors, and muscles inserting 11 on and originating from said spine and pelvis adaptable to produce or involve with said 12 disc herniation. 13 9. The method according to claim 1 wherein said identification of the soft tissues 14 producing or involving with said disc herniation comprises the identification of specific 15 short and long spinal ligaments that cause or involve with said disc herniation. 16 10. The method according to claim 1 wherein said a treatment of the soft tissues 17 producing or involving with said disc herniation comprises a formula means for 18 rehabilitating the muscles produce or involve with said disc herniation. 19 11. The method according to claim 1 wherein said a treatment of the soft tissues 20 producing or involving with said disc herniation comprises a formula means for 21 rehabilitating the ligaments produce or involve with said disc herniation. 22 12. The formula means for rehabilitating according to claim 10 includes a plurality of

formulas for the elongation or stretching of a specific muscle.

1	13. The formula means for rehabilitating according to claim 10 includes a plurality of
2	formulas for the elongation or stretching of a plurality of specific muscles.
3	14. The formula means for rehabilitating according to claim 13 includes a plurality of
4	formulas for the elongation or stretching of the intervertebral muscles.
5	15. The formula means for rehabilitating according to claim 13 includes a plurality of
6	formulas for the elongation or stretching of the hip flexors.
7	16. The formula means for rehabilitating according to claim 10 includes a plurality of
8	formulas for the strengthening of a specific muscle.
9	17. The formula means for rehabilitating according to claim 10 includes a plurality of
10	formulas for the strengthening of a plurality of specific muscles.
11	18. The formula means for rehabilitating according to claim 10 includes a plurality of
12	formulas for the relaxation of a plurality of muscles.
13	19. A nonsurgical treatment of intervertebral disc herniation and related disorders in a
14	human or an animal spine comprising, first, a discovery that torques, forces, stresses,
15	strains, sprains imposed on said spine, the pelvis and the spinal and pelvic components
16	and the deviations in the musculoskeletal structure and biomechanics of said human or
17	animal is a cause of said herniation of an intervertebral disc or a plurality of intervertebral
18	discs and, second, a data means for estimating the risks, incidences and propensity
19	towards said disc herniation in a human population or an animal population comprises:
20	an illustration of said data;

an application of said discovery for the treatment of of said disc herniation;

1	an application of said data for the treatment of of said disc herniation;
2 3	an identification of the soft tissues producing or involving with said disc herniation;
4	a treatment of the soft tissues producing or involving with said disc herniation;
5	a measurement of a length of a muscle originating from said spine;
6	a measurement of the lengths of a plurality of muscles originating from said spine
7	
8	a measurement of a length of a muscle inserting on said spine;
9	a measurement of the lengths of a plurality of muscles inserting on said spine;
10	a measurement of a length of a muscle originating from the pelvis;
11	a measurement of a length of a muscle inserting on the pelvis;
12	a measurement of the lengths of a plurality of muscles originating from the pelvis
13	a measurement of the lengths of a plurality of muscles inserting on the pelvis;
14	a measurement of a length of a muscle originating from the leg;
15	a measurement of a length of a muscle inserting on the leg;
16	a measurement of the lengths of a plurality of muscles originating from the leg;

1	a measurement of the lengths of a plurality of muscles inserting on the leg;
2	a measurement of an angle formed by the long axis of a muscle and the long axis
3	of said spine;
4	
5	a measurement of a plurality of angles formed by the long axes of a plurality of
6	muscles and the long axis of said spine;
7	a measurement of a torque exerted by a muscle on said spine;
8	a measurement measuring the torques exerted by a plurality of muscles on said
9	spine;
10	a measurement of a force exerted by a muscle on said spine; and
11	a measurement of forces exerted by a plurality of muscles on said spine.
12	20. A preventive medicine of disc herniation comprising a means for preventing and
13	nonsurgically treating intervertebral disc herniation in humans and animals comprising a
14	discovery that torques, forces, stresses, strains, sprains imposed on said spine, the pelvis,
15	the spinal and pelvic components and the deviations in the musculoskeletal structure and
16	biomechanics of said humans or animals and a data relating to the intervertebral disc
17	herniation in individuals in a human population or an animal population wherein said data
18	comprising the characteristics of individuals who had disc herniation or herniations
19	adaptable, first, to elucidate said characteristics of individuals, second, serve as a
20	predictor and pointer of the risks and incidences of said disc herniation and as an
21	identifier of individuals who are prone or susceptible to said herniation, and, third, to
22	guide the nonsurgical treatment and management of said disc herniation in said
23	individuals comprises:

1	an application of said discovery for the prevention of said disc herniation;
2	an application of said discovery to identify the individuals who are at risk for said
3	disc herniation;
4	an application of said discovery to identify the individuals who are prone or
5	susceptible to said disc herniation;
6	an application of said discovery for the treatment and management of said disc
7	herniation;
8	
9	an application of said data for the prevention of said disc herniation;
10	an application of said data to identify the individuals who are at risk for said disc
11	herniation;
12	an application of said data to identify the individuals who are prone or susceptible
13	to said disc herniation;
14	an application of said data for the treatment and management of said disc
15	herniation;
16	a formula means for rehabilitating the muscles produce or involve with said disc
17	herniation; and
18	a formula means for rehabilitating the ligaments produce or involve with said disc
19	herniation.